|  |  |
| --- | --- |
|  |  |

Question 1

When the p-value is high, the data support the null hypothesis. **True** or False

When conducting a paired sample hypothesis test, you need two unrelated sets of data. True or **False**

The One-Way ANOVA is appropriate when you have four levels of the same factor. **True** or False

When sigma is known, and you have 10 items in the sample, you should use a Z-test. **True** or False

Question 2 **Consider the following data.**

|  |  |  |
| --- | --- | --- |
|  | English | Spanish |
| Burt | 8.3 | 10.2 |
|  | 8.1 | 10.3 |
|  | 9.1 | 11.7 |
| Ernie | 11.2 | 9.3 |
|  | 13.9 | 8.9 |
|  | 12.5 | 7.5 |
| Mario | 13.9 | 10.3 |
|  | 10.8 | 10.5 |
|  | 12.5 | 10.7 |

Conduct an Anova: Two-Factor With Replication using Excel.

Who has the lowest average in English? **Burt**

Who has the highest average in Spanish? **Burt**

Is the Interaction between person and language significant? **Yes**

What is the p-value for Interaction? **0.0006**

What is the value of SS Total? **58.88278**

What is the value of the degrees of freedom for the rows? **2 The row factor is person.**

Save the file as MultipleSept301130yourname. Email it to me before 1pm.